

PRODUCT INFORMATION

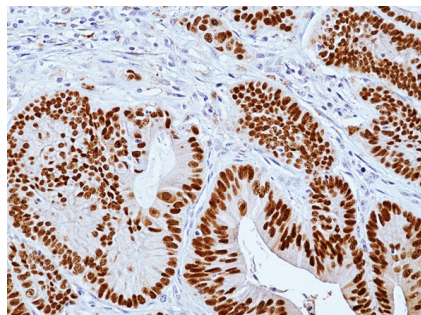
CDX2 Rabbit Monoclonal Antibody (Clone RM495)

Item No. 42847

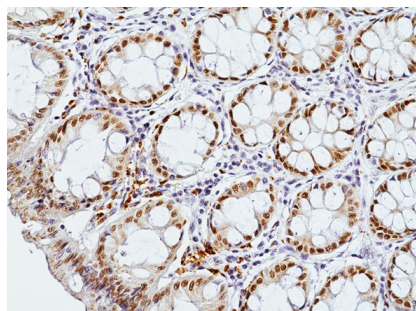
Overview and Properties

Contents:	This vial contains 100 µl of protein A-affinity purified antibody.
Synonyms:	Caudal-type Homeobox Protein 2, CDX3, Homeobox Protein CDX2
Immunogen:	Recombinant human CDX2 protein
Cross Reactivity:	(+) CDX2
Species Reactivity:	(+) Human
Form:	Liquid
Storage:	-20°C (as supplied)
Stability:	≥1 year
Storage Buffer:	PBS with 50% glycerol, 1% BSA, and 0.09% sodium azide
Clone:	RM495
Host:	Rabbit
Isotype:	IgG
Applications:	Immunohistochemistry (IHC); the recommended starting dilution is 1:100-1:200. Other applications were not tested, therefore optimal working concentration/dilution should be determined empirically.

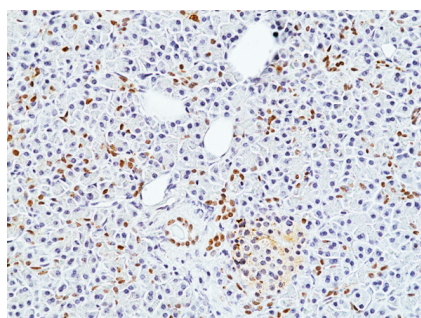
Images



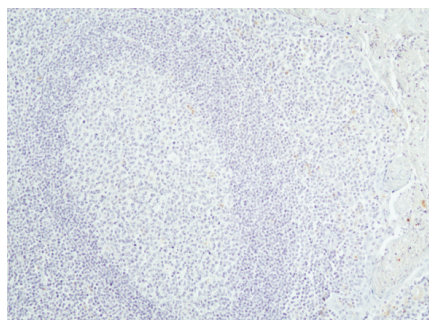
Immunohistochemical staining of formalin-fixed and paraffin-embedded human colon cancer tissue sections using CDX2 Rabbit Monoclonal Antibody (Clone RM495) at a 1:100 dilution.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human colon tissue sections using CDX2 Rabbit Monoclonal Antibody (Clone RM495) at a 1:100 dilution.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human pancreas tissue sections using CDX2 Rabbit Monoclonal Antibody (Clone RM495) at a 1:100 dilution.



Immunohistochemical staining of formalin-fixed and paraffin-embedded human tonsil tissue sections using CDX2 Rabbit Monoclonal Antibody (Clone RM495) at a 1:100 dilution.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the [complete](#) Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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Description

CDX2 is a member of the caudal-related homeobox transcription factor family.¹ It is composed of an N-terminal nuclear import sequence, a hexapeptide region, and a homeodomain.² CDX2 is expressed in intestinal epithelial cells and is required for intestinal tract development and function, such as membrane permeability and local inflammation.^{1,3} Knockout of *Cdx2* is embryonic lethal in mice.³ CDX2 has been used as a diagnostic marker for colon cancer.⁴ Lack of CDX2 expression is correlated with poor prognosis in patients with Stage II or III colon cancer.⁵ Cayman's CDX2 Rabbit Monoclonal Antibody (Clone RM514) can be used for immunohistochemistry (IHC).

References

1. Coskun, M., Troelsen, J.T., and Nielsen, O.H. The role of CDX2 in intestinal homeostasis and inflammation. *Biochim. Biophys. Acta* **1812**(3), 283-289 (2011).
2. Trinh, K.Y., Jin, T., and Drucker, D.J. Identification of domains mediating transcriptional activation and cytoplasmic export in the caudal homeobox protein Cdx-3. *J. Biol. Chem.* **274**(9), 6011-6019 (1999).
3. Chawengsaksophak, K., James, R., Hammond, V.E., *et al.* Homeosis and intestinal tumours in *Cdx2* mutant mice. *Nature* **386**(6620), 84-87 (1997).
4. Zhang, Y.-J., Chen, J.-W., He, X.-S., *et al.* SATB2 is a promising biomarker for identifying a colorectal origin for liver metastatic adenocarcinomas. *EBioMedicine* **28**, 62-69 (2018).
5. Dalerba, P., Sahoo, D., Paik, S., *et al.* CDX2 as a prognostic biomarker in stage II and stage III colon cancer. *N. Engl. J. Med.* **374**(3), 211-222 (2016).

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